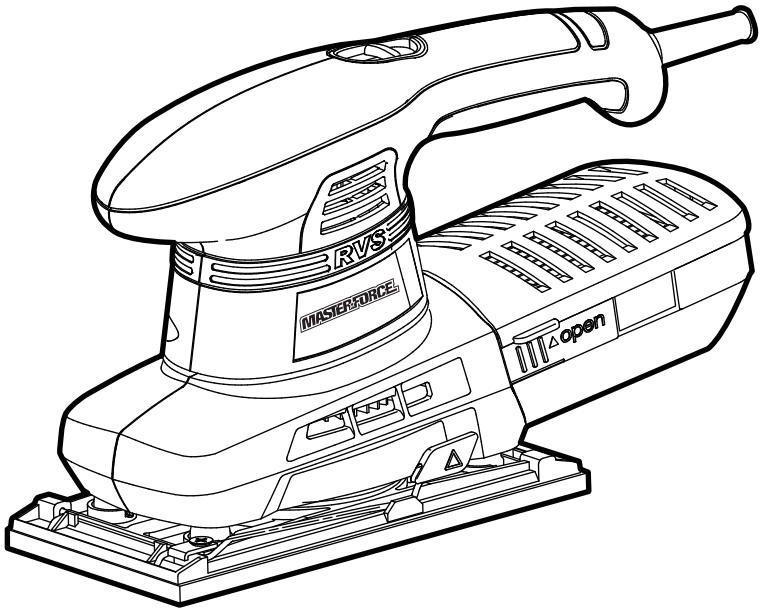
1/3-Sheet Orbital Sander



241-0794

OPERATOR'S MANUAL

⚠ CAUTION: To Reduce The Risk Of Injury, User Must Read And Understand The Operator's Manual. Save These Instructions For Future Reference.

For questions / comments, technical assistance or repair parts – Please Call Toll Free: 1-866-917-4374. (M-F 8am – 6pm EST.)

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SAFETY SYMBOLS

Some of these following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

Symbol	Name	Designation / Explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
∿	Alternating current	Type of current
⎓	Direct current	Type of characteristic of current
n_o	No-load speed	Rotational speed at no load
⧈	Class II construction	Double insulated construction
.../min	Per minute	Revolutions, strokes, surface speed orbits, etc., per minute
	Wear safety goggles	**⚠ WARNING: The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full-face shield when needed. We recommend a Wide Vision Safety Mask for use over eye-glasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.**

⚠ WARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician.

SAFETY INSTRUCTIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are not substitutes for proper accident prevention measures.

⚠ WARNING: Be sure to read and understand all safety instructions in this manual, including all safety alert symbols such as "DANGER," "WARNING," and "CAUTION" before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SYMBOL MEANING

SAFETY ALERT SYMBOL: Indicates DANGER, WARNING, OR CAUTION. May be used in conjunction with other symbols or pictographs.

⚠ DANGER: Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

⚠ WARNING: Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.

NOTICE: (Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SAVE THESE INSTRUCTIONS!

SAFETY INSTRUCTIONS

KNOW THE TOOL

Carefully read this operating manual and all labels affixed to the sander before using this tool. Keep this manual available for future reference.

IMPORTANT

This tool should only be serviced by a qualified service technician. For more information, call the toll free helpline at 1-866-917-4374.

READ ALL INSTRUCTIONS THOROUGHLY.

GENERAL SAFETY RULES FOR POWER TOOLS

⚠ WARNING: To reduce the risk of injury, the user must read the Owner's Manual.

⚠ WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

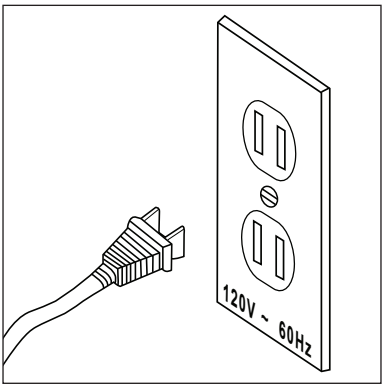
Save all warnings and instructions for future reference.

The term power tool in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

WORK AREA SAFETY

1. **Keep the work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY



1. **Power tool plugs must match the outlet.** Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord.** Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

6. **If operating a power tool in a damp location is unavoidable, use a ground-fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
2. **Use personal protective equipment.** Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
3. **Prevent unintentional starting.** Ensure that the switch is in the off-position before connecting to a power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. **Dress properly.** Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. **If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

POWER TOOL USE AND CARE

1. **Do not force the power tool.** Use the correct power tool for your application. The correct power tool will do the job better and more safely at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source and/or the battery pack from the power tool before marking any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
5. **Maintain power tools.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories, tool bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

SAFETY INSTRUCTIONS

SERVICE

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

SPECIFIC SAFETY RULES FOR SANDER

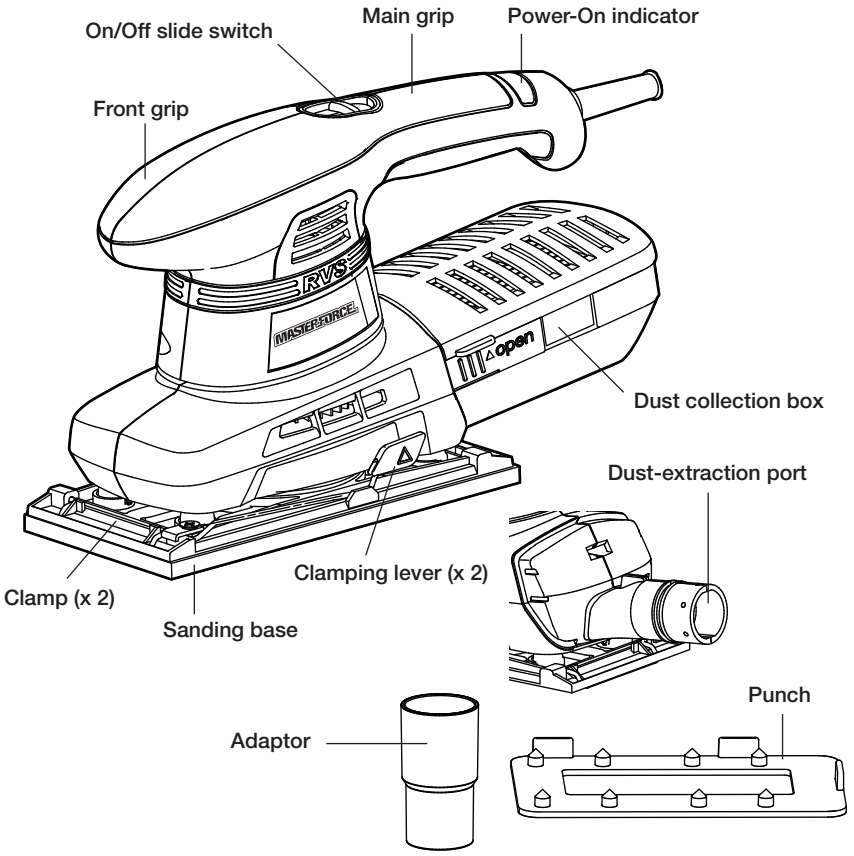
1. **Hold the tool by its insulated gripping surfaces when performing an operation where the tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. **Always wear safety goggles and a dust mask when sanding, especially when sanding overhead.**
3. **A suitable breathing respirator must be worn while sanding chemically pressure treated objects.**
4. **The machine is not suitable for wet sanding.**
5. **Do not use sand paper that is larger than needed.** Extra paper extending beyond the sanding pad can cause serious lacerations.
6. **The dust box or a vacuum system should be used with the tool.** The dust box should be emptied frequently. Do not throw sanding dust on an open fire, because materials in fine particle form may be explosive.
7. **Do not wet sand with this sander.** Liquids entering the motor housing is an electrical shock hazard.
8. **Use clamps or another practical way to support the workpiece and secure it to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
9. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock. The following table shows the correct size to use, depending on cord length and nameplate amperage rating of the tool. When in doubt, use the next heavier gauge. Always use UL and CSA listed extension cords.

Recommended sizes of extension cords:

Tool's Ampere Rating	Volts	Total length of cord in feet Cord size in A. W. G. (minimum)			
		25'	50'	100'	150'
0–6	120 V~	18	16	16	14
6–10		18	16	14	12
10–12		16	16	14	12
12–16		14	12	Not Recommended	

OVERVIEW

⚠ WARNING: Disconnect the plug from the power source before making any assembly, adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.



SPECIFICATIONS

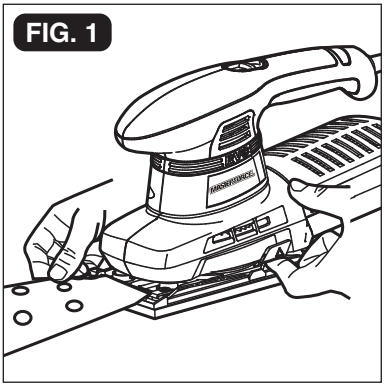
Voltage	120 V, 60 Hz
Input power	2.0 A
No-load speed	12,000 OPM
Pad size	3-5/8” x 7-3/8”
Sandpaper attachment	Clamp
Cord length	8 ft.
Weight	3.8 lbs.

ASSEMBLY

CONTENTS

Sander, dust-collection box, dust extraction port, punch plate, 3pc sandpaper and operator's manual

ATTACHING A SANDING SHEET (FIG. 1)



Remove the plug from the power source. Select the appropriate sandpaper for your job.

To attach a sanding sheet, lift the clamping levers up and out of the base to release the clamps at both ends of the sanding base.

Align the holes in the sanding sheet with those in the base, insert one end of the sanding sheet under the clamp and close the clamping lever, draw the sanding sheet tight over the sanding base and then clamp the other end.

If the sheets do not have holes, attach as described above and use the hole punch as described below.

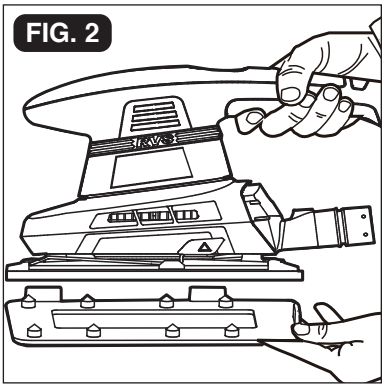
The sheet should be kept tightly clamped over the base; otherwise there could be excessive wear of the base materials.

NOTICE: Do not continue to use the sander with a sanding sheet that is excessively worn or damaged.

NOTICE: Do not use the same sanding sheet for wood and metal. Metal particles become embedded in the sanding sheet and will scour a wooden surface.

NOTICE: Take care to regularly clean out the dust build up on the base underneath the sanding sheet and do not to allow the sanding sheet wear completely down before replacing it.

USING THE HOLE PUNCH (FIG. 2)



If the sanding sheet does not already have holes, it will be necessary to punch holes into the sanding sheet using the hole punch provided.

Place the hole punch on a level surface.

After attaching the sanding sheet, align the base of the sander with the hole punch and push down on the sander until the hole punch pierces the sanding sheet.

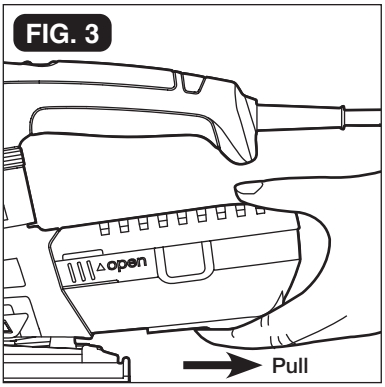
Remove the sander from the hole punch.

CLEANING THE DUST COLLECTION BOX AND THE FILTER (FIG. 3-FIG. 6)

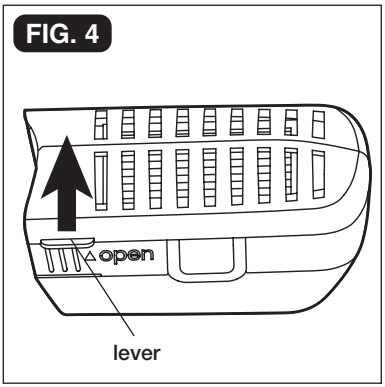
The tool collects sanding dust in the box supplied with your sander. For maximum efficiency, the dust collection box should be cleaned frequently during operation.

⚠ WARNING: Your tool is equipped with a dust collection box. Clean and empty it frequently after completion of sanding and before storing the sander.

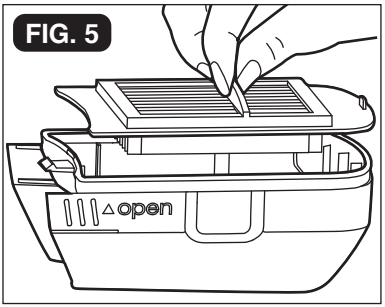
1. Unplug the sander.
2. To remove the dust collection box, simply pull it away from the tool (see Fig. 3).



3. Lift up the lever and remove the cover from the dust collection box (Fig. 4).

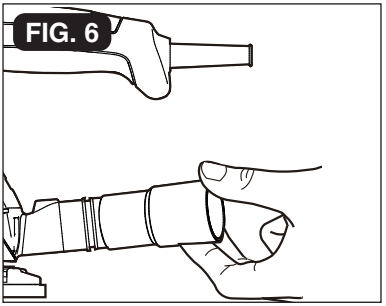


4. To empty the dust collection box, hold the dust collection box and grasp the rib on the filter. Firmly pull the rib upward and remove the filter from the dust collection box (Fig. 5). The preferred method is to perform the cleaning outside by gently tapping the filter into a plastic bag to collect the dust. Wear a mask to prevent inhalation of dust. Alternatively, remove dust with your fingers or a soft brush. If some dust remains in the box it will not affect sanding performance but will reduce dust collection efficiency.



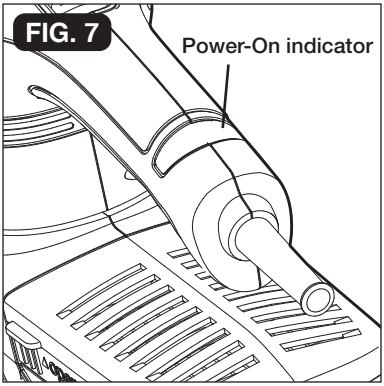
NOTICE: Do not wash the filter with soap and water. Dust may become more firmly lodged in the pores, which will reduce dust collection and damage the filter.

5. Alternatively, the dust extraction adaptor can be fitted to the dust extraction port to allow a dust extraction system or a suitable vacuum cleaner to be connected to the tool for a cleaner and safer work area (Fig. 6). Always keep the dust extraction holes in the sanding base free of obstructions.



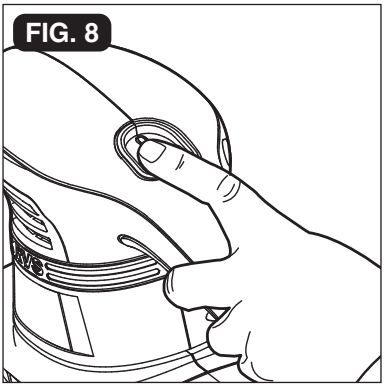
OPERATION

POWER-ON INDICATOR LIGHT (FIG. 7)



The tool has a “POWER-ON INDICATOR” red light. This red light is always on when the tool is plugged into a power source.

SWITCHING ON AND OFF (FIG. 8)



Connect the plug to a suitable power source.

Always lift the sander from the work before switching on or switch off.

To turn the sander on, push the on/off slide switch forward. To stop the sander, push the on/off slide switch backward.

SELECTING THE CORRECT GRADE OF SANDPAPER

Different grades of sandpaper can be purchased from the store where you purchased the tool.

Use a coarse grit to sand down rough finishes, medium grit to smooth the work and fine grit to finish off.
It is best to make a trial run on a scrap piece of material to determine the optimum grades of sanding sheet for a particular job.

SANDING

The sander can be used for most sanding operations on materials such as wood, plastic, metal and painted surfaces.

Wear safety goggles, a dust mask and hearing protection.

Where possible, secure smaller workpieces to prevent them from moving under the sander.

Hold the sander, keeping it clear of the workpiece. Start the sander and gradually lower it onto the workpiece so that the entire sanding sheet surface is in contact with workpiece.

Move the sander slowly over the surface of the workpiece in a circular motion with an even, moderate pressure.

If there are still scratches on your work after sanding, try either of the following:

- Go back to a coarser grit and sand the marks out before continuing with the original choice
- Try using new sanding sheet of the same grit to eliminate the unwanted marks before progressing to a finer grit and finishing the job.

SANDPAPER GRIT	TYPE	EXAMPLE OF USE
60 or less	Very coarse	Material removal, heavy paint removal, shaping wood
80–100	Coarse	Paint removal, rough surface preparation (e.g., non-planed wood)
120–150	Medium	Surface preparation for planed wood
180–220	Fine	Sanding between coats
240 or more	Very fine	Final finishing

MAINTENANCE

Check for damaged, missing, or worn parts. Check for loose screws, misalignment or binding of moving parts, or any other condition that may affect the operation. If abnormal vibration or noise occurs, turn the tool off immediately, and have the problem corrected before further use.

The tool should be unplugged from the power supply before cleaning or performing any maintenance. Using compressed air may be the most effective cleaning method. Always wear safety goggles when cleaning tools with compressed air.

Do not let brake fluids, gasoline, petroleum-based products, penetrating oil, etc., come into contact with plastic parts. They contain chemicals that can damage, weaken, or destroy plastic.

If the supply cord is damaged, it must be replaced by a specially prepared cord available through the service organization.

⚠ WARNING: When servicing, use only identical replacement parts. The use of any other parts may create a hazard or cause damage to the product.

⚠ WARNING: Use only accessories that are recommended for your model by the manufacturer. Accessories that may be suitable for one tool may become hazardous when used on another tool.

⚠ WARNING: Maintain tools with care. Properly maintained tools work to their best advantage and are easier to control.

⚠ WARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician.

⚠ WARNING: If the supply cord is damaged, it must be replaced by a specially prepared cord available through the service organization.

TROUBLESHOOTING

PROBLEM	CAUSE	SUGGESTED CORRECTIVE ACTION
The sander will not start.	The sander is not plugged into a power source.	Plug the sander into a power source.

NOTES

NOTES

1/3-SHEET ORBITAL SANDER

WARRANTY

90-DAY MONEY BACK GUARANTEE:

This MASTERFORCE® brand power tool carries our 90-DAY Money Back Guarantee. If you are not completely satisfied with your MASTERFORCE® brand power tool for any reason within ninety (90) days from the date of purchase, return the tool with your original receipt to any MENARDS® retail store, and we will provide you a refund – no questions asked.

3-YEAR LIMITED WARRANTY:

This MASTERFORCE® brand power tool carries our famous No Hassle 3-Year Limited Warranty to the original purchaser. If, during normal use, this MASTERFORCE® power tool breaks or fails due to a defect in material or workmanship within three (3) years from the date of original purchase, simply bring this tool with the original sales receipt back to your nearest MENARDS® retail store. At its discretion, MASTERFORCE® agrees to have the tool or any defective part(s) repaired or replaced with the same or similar MASTERFORCE® product or part free of charge, within the stated warranty period, when returned by the original purchaser with original sales receipt. Not withstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades, brushes, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.

For questions / comments, technical assistance or repair parts – Please Call Toll Free at: **1-866-917-4374**. (M-F 8am – 6pm EST)

SAVE YOUR RECEIPTS
THIS WARRANTY IS VOID WITHOUT THEM

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08/2012